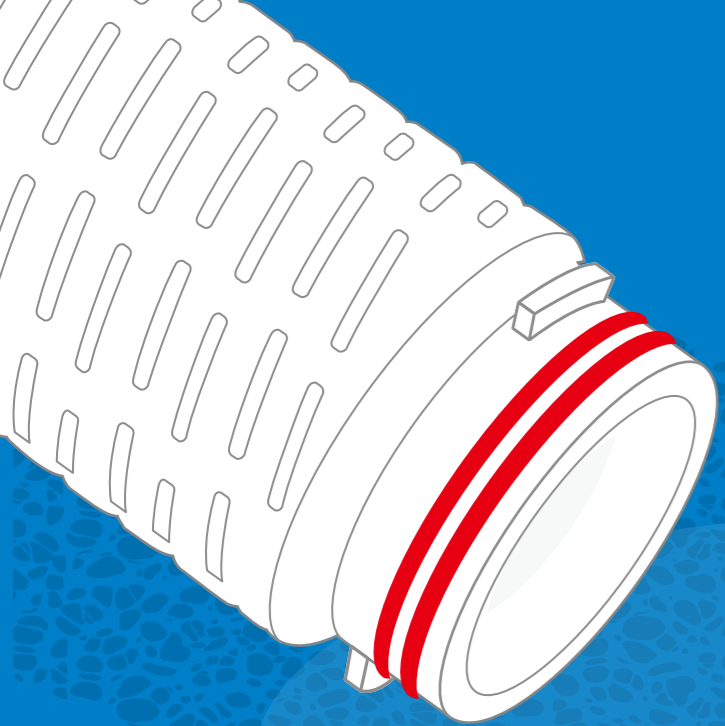


# Filtration, Separation & Purification Solutions for Biopharma Applications





# Filtration Separation Purification

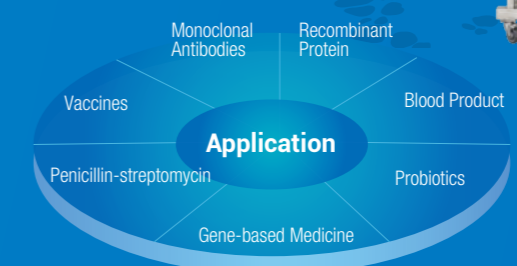
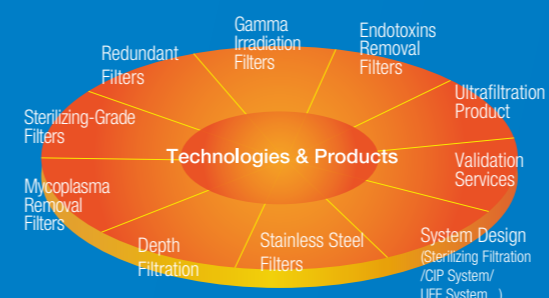
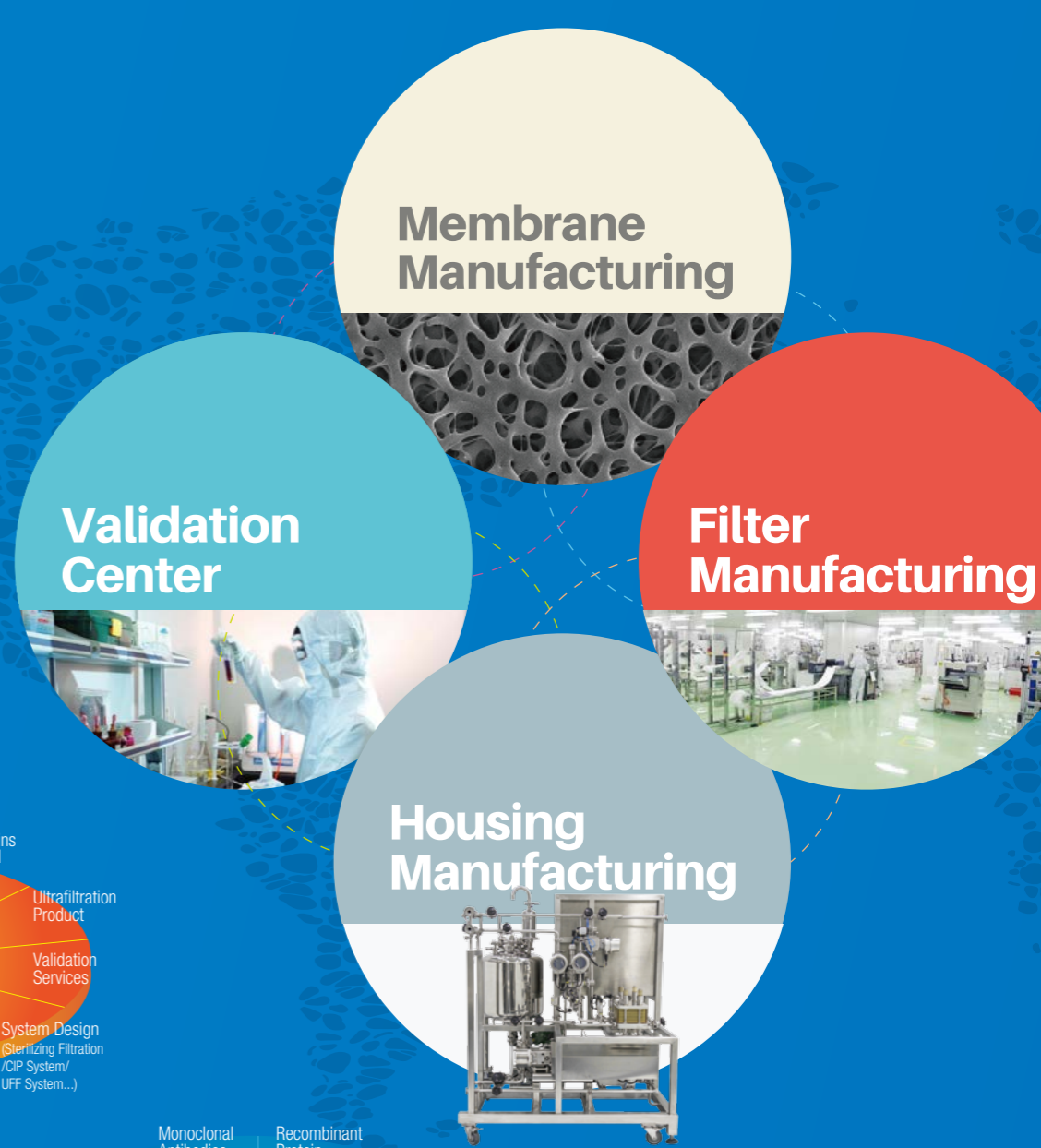


Cobetter dedicates itself to providing Filtration, Separation, & Purification

Solutions across all industries. Cobetter provides over **1,800+** technical analysis reports annually

for customers in the pharmaceutical industry and over **2,000+** technical analysis reports annually

for customers in chemical, microelectronics and life sciences industries



**C1** Factory  
Membrane Filter Manufacturing  
9400 SQM

**C2** Factory  
Depth Filter Manufacturing  
9000 SQM

**C3** Factory  
Semiconductor Products Manufacturing  
13600 SQM, 2019

**C4** Factory  
Sustainless Filter Manufacturing  
& Fluoroplastics Resurtech Manufacturing  
& Housing Manufacturing  
28000 SQM

**C5** Lab  
R&D, Lab Center  
41000 SQM, 2020

**C6** Life Center  
33000 SQM, 2021

**C7** Factory  
Diagnosis R&D Line  
1300 SQM, 2020





**Validation Expert**  
Taketomi Hidetoshi, Japanese  
Previous Pall Lab Expert for  
More Than 30 Years.

# Validation Center

Accredited by China National Accreditation Service for Conformity (CNAS)  
Established with an initial 10million USD investment



50+ Equipments  
180+ SOP  
80+ Engineers  
Cover all the Validation Tests

## Life & Science Validation Center

- ①⑥ **Bacterial Challenge Test** : Retention tests for Mycoplasma, B.diminuta, Serratia marcescens, lactobacillus, saccharomycetes, colibacillus and other microorganisms
- Chemical Analysis** : Extractable & Leachables , Chemical Compatibility test
- UV/PDA-HPLC** : UV/PDA scanning to determine extractables and leachables
- ④ **UPLC/MS** : Determine the nonvolatile and semivolatile of extractable & leachables quantitatively and qualitatively
- ⑤ **GC-MS** : Determine volatile/semi-volatile status of extractables and leachables quantitatively and qualitatively
- ② **IC/ICP-MS** : Analyze alkalis, halogen family, acid radicals, ammonia, and other ions quantitatively
- NVR** : Analyze non-volatile extractable from water, IPA, Acetone and other volatile solutions quantitatively
- FTIR** : Analyze polymers and oligomers in non-volatile extractable & leachables qualitatively
- ③ **SEM/EDS** : Analyze filter membrane defect, appearance, and impurities. SEM analysis of chemical compatibility

## Advanced Japanese Quality Control Methods

### Ensure that Every Product is Safe, Reliable, and Stable

**Quality Assurance is based on the Quality Assurance System**  
- Focus on the Production Process

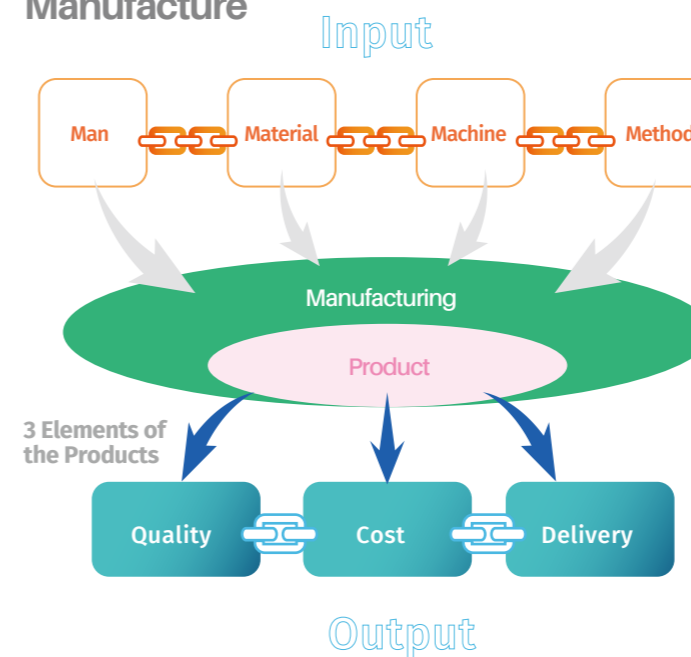
**Implement 4M Quality Management Concept**  
- Process and System Simultaneous Completion

**All Products are based on the QC Project Table**  
- Produced as per SOP for Stable Production

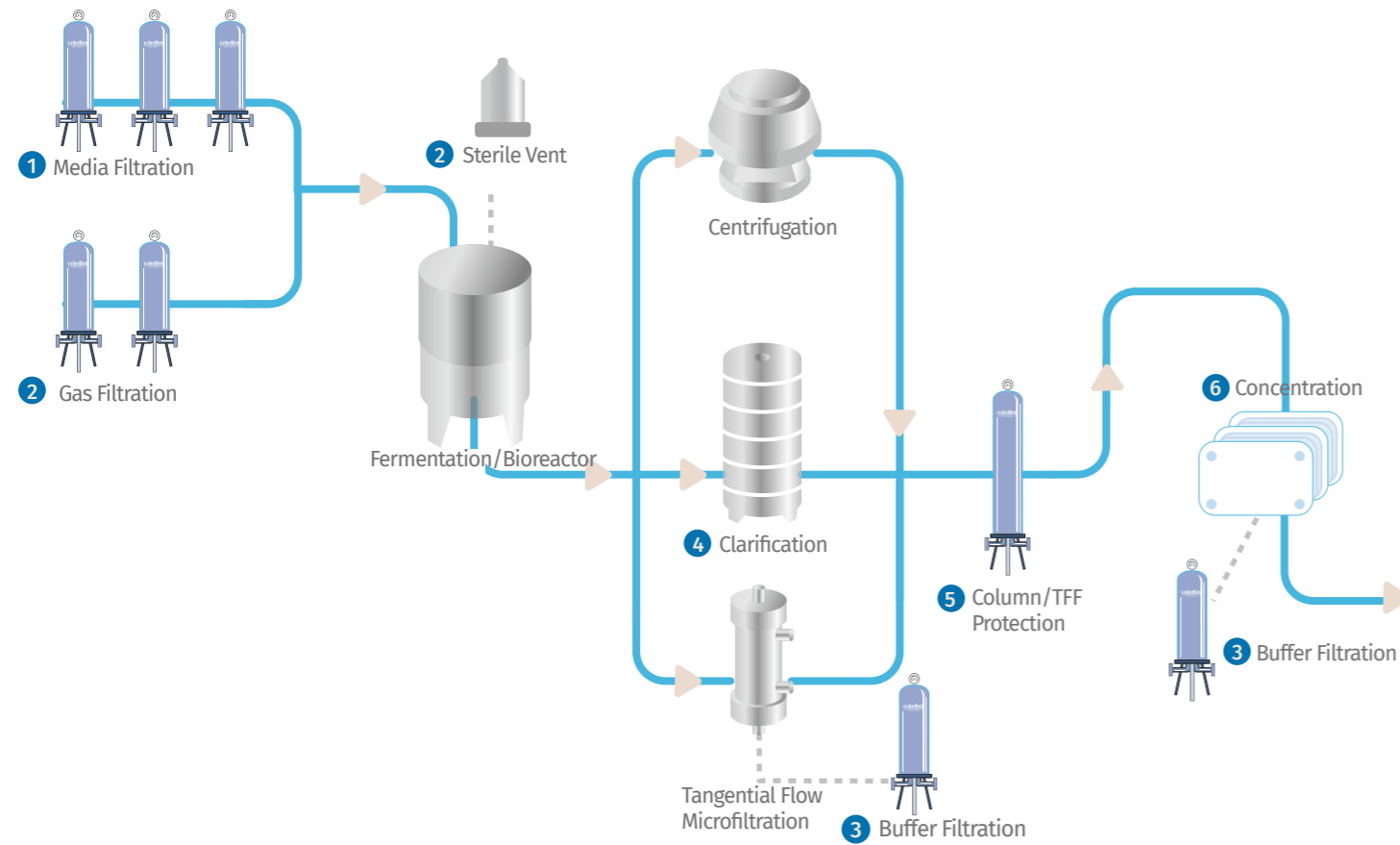


## 4M

### Manufacture



# Flow Diagram of Bioprocess



## 1 Media Filtration

Bioburden Reduction and Particle Control

- Greclary CHV -Glass Fiber
- Safetect PME -PES
- Purcise PLE -Double Layer PES

Sterilizing-grade Filtration

- Purcise SLE -Double Layer PES
- Purcise SPS -PES
- Corevital SMD -PVDF

Mycoplasma Removal

- Purcise MLE -Double Layer PES

## 2 Vent and Gas Filtration

- Safesure AFM -Hydrophobic PTFE
- Aegivast ACE -Hydrophobic PTFE
- Corevital APB -Hydrophobic PVDF

## 3 Buffer Filtration

- Purcise PLE -Double Layer PES
- Purcise PAF -PES
- Safetect PME -PES
- Corevital SAF -Double Layer PES
- Purcise SLE -Double Layer PES
- Purcise SPS -PES
- Corevital SMD -PVDF

## 4 Clarification Filtration

- Roheap CSD

## 6 Concentration and Purification

- Consieve UET -PES

## 5 Column / TFF Protection

Clarification

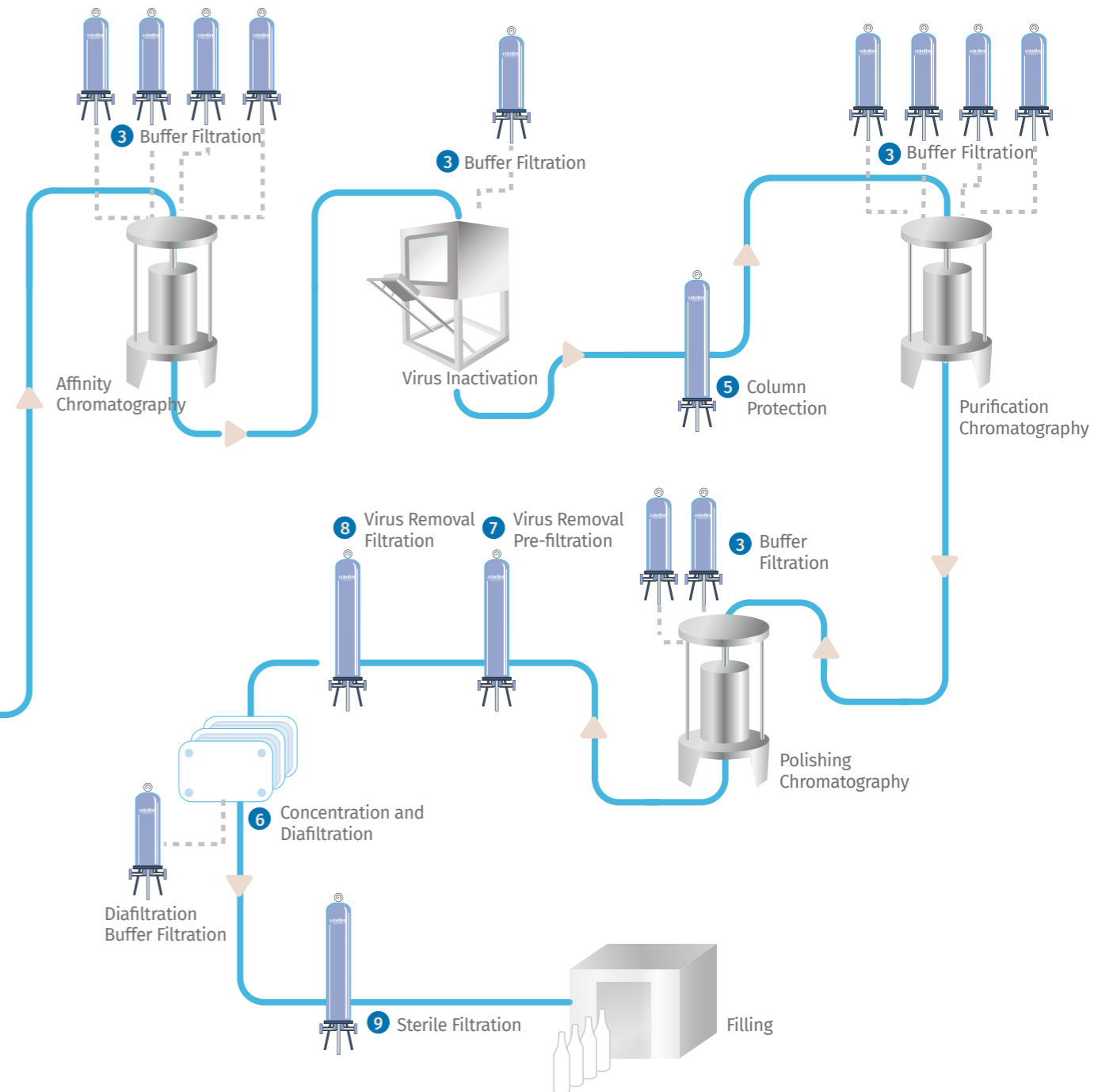
- Greclary CHV -Glass Fiber
- Excesal CHE -PP
- Excesal CHC -PP
- Excesal CHT -PP

Bioburden Reduction and Particle Control

- Purcise PLE -Double Layer PES
- Safetect PME -PES

Sterilizing-grade Filtration

- Purcise SLE -Double Layer PES



## 7 Viral Remove Prefiltration

- Purcise SLE -Double Layer PES
- Purcise SPS -PES
- Purcise MLE -Double Layer PES

## 8 Virus Clearance

- Viruclear -PES\*
- \* Being Developed

## 9 Sterile Filtration

- Purcise SLE -Double Layer PES
- Purcise SPS -PES

# Bricap & Brisip Capsule Filter Series



## Bricap/BriScale Disc Capsule Filters

Item	Diameter	Max. Length	Inlet/Outlet	Vent
Bricap V50D	64mm	70mm	6-13 mm (1/4"-1/2") Stepped Hose Barb	N/A
Bricap V50A	73mm	74mm		N/A
Bricap V42	56mm	47mm	6-9 mm (1/4"-3/8") Stepped Hose Barb	N/A
BriScale A50	64mm	71mm	6-13mm(1/4"-1/2") Stepped Hose Barb	Luer lock



## Bricap C/D Series Capsule Filters

Item	Diameter	Max. Length	Inlet/Outlet	Vent/Drain
Bricap C01		106mm	14 mm (9/16") Sanitary Flange 19 mm (3/4") Sanitary flange	
Bricap C02	64mm	136mm	31 mm (1 1/4") Sanitary Flange	6mm Hose Barb
Bricap C03		173mm	6-13 mm (1/4"-1/2") Stepped Hose Barb 9.6mm (3/8") Hose Barb	



## Brisip Series Capsule Filters

Item	Diameter	Max. Length	Inlet/Outlet	Vent/Drain
Brisip SP3	81mm	159mm	38 mm (1 1/2") Sanitary Flange	6mm Hose Barb Stäubli



## Bricap L Series Capsule Filters

Item	Diameter	Max. Length	Inlet/Outlet	Vent/Drain
Bricap L02		142mm		
Bricap L03		190mm	14 mm (9/16") Sanitary Flange 19 mm (3/4") Sanitary flange	
Bricap L05	89mm	233mm	38 mm (1 1/2") Sanitary Flange 13 mm (1/2") Hose Barb	6mm Hose Barb
Bricap L10		347mm	14 mm (9/16") Hose Barb	
Bricap L20		585mm	16 mm (5/8") Hose Barb 19 mm (3/4") Hose Barb	
Bricap L30		838mm	25 mm (1") Hose Barb	

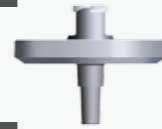


## Bricap T Series Capsule Filters

Item	Diameter	Max. Length	Inlet/Outlet	Gauge Port	Vent/Drain
Bricap T10		354mm	38 mm (1 1/2") Sanitary Flange	14 mm (9/16") Sanitary Flange	
Bricap T20	89mm	592mm	38 mm (1 1/2") Sanitary Flange 19mm (3/4")	38 mm (1 1/2") Sanitary Flange No top port	6mm Hose Barb
Bricap T30	/152mm (Inlet/Outlet)	845mm	Sanitary Flange		

## Inlet /Outlet Connections

**C** Female Luer Lok™ Inlet



**P** Male Luer Lok™ Outlet



**K** 14 mm (9/16")  
Sanitary Flange

**T** 19 mm (3/4")  
Sanitary Flange



**F** 31 mm (1 1/4")  
Sanitary Flange

**S** 38 mm (1 1/2")  
Sanitary Flange



**Y** 9.6 mm (3/8")  
Single Stepped Hose Barb

**H** 13 mm (1/2")  
Single Stepped Hose Barb

**V** 14 mm (9/16")  
Single Stepped Hose Barb

**X** 16 mm (5/8")  
Single Stepped Hose Barb

**M** 19 mm (3/4")  
Single Stepped Hose Barb

**D** 25 mm (1")  
Single Stepped Hose Barb



**B** 6-13 mm (1/4"-1/2")  
Multiple Stepped Hose barb

**E** 6-9 mm (1/4"-3/8")  
Multiple Stepped Hose barb



**S-S** 38 mm (1 1/2")  
Sanitary Flange  
(Only for T-Type Capsule)



## Cartridge Filters

Nominal Length	Adaptor	Seal Material
5"	226/Fin	Silicone
10"	226/Flat	EPDM
20"	222/Fin	Viton
30"	222/Flat	TEV
40"	Double Open End	



# Catalog

## Clarification Filter Series

<b>Roheap CSD Filter</b> High Dirt Holding Capacity	P 10
<b>Greclary CHV Filter</b> High Dirt Holding Capacity and Retention Efficiency	P 13
<b>Excesal CHC</b> High Dirt Holding Capacity	P 15
<b>Excesal CHT</b> High Dirt Holding	P 17
<b>Excesal CHE</b> High Retention Efficiency	P 18

## Pre-filtration and Redundant Filter Series

<b>Purcise PAF</b> Hydrophilic Sterile-Grade Filter with High Flow Rates	P 20
<b>Purcise PLE Filter</b> Hydrophilic Filter with Low Extractables	P 21
<b>Corevital PME</b> Hydrophilic Sterile-Grade Filter with Low Protein Binding	P 23
<b>Corevital PMD</b> Low Protein Binding and Hydrophilic Filter	P 29

## Sterile-Grade Filter Series

<b>Purcise SLE Filter</b> Hydrophilic Sterile-Grade Filter with Low Extractables	P 22
<b>Purcise SAF Filter</b> Hydrophilic Sterile-Grade Filter with High Flow Rates	P 24
<b>Purcise SPS Filter</b> Hydrophilic Sterile-Grade Steam-in-Place (SIP) Filter	P 25
<b>Corevital SMD Filter</b> High Flow Rate, Low Protein Binding Hydrophilic Sterile Filter	P 28

## Mycoplasma Removal Filter Series

<b>Purcise MLE Filter</b> Hydrophilic Filter with Low Extractables	P 26
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## Gas Filtration Filter Series

<b>Aegivast ACE Filter</b> Hydrophobic Filter with High Retention Rates	P 31
<b>Safesure AFM Filter</b> Hydrophobic Filter with High Retention Rates	P 32
<b>Corevital APB Filter</b> Gamma-resistant Hydrophobic Filter	P 33

## Other Products

<b>TFF</b> Cassettes /Stainless Holder /System	P 36
<b>Integrity Test Instrument</b>	P 38
<b>Clean Steam Bag</b>	P 39
<b>Vaccum Filter</b>	P 39
<b>Filter Housing</b>	P 40

## Clarification Filter Series

### Roheap CSD Filter High Dirt Holding Capacity



#### Features

- Filter media composed of lignocellulose and inorganic filter aids
- Gradient filter structure provides high dirt holding capacity and retention efficiency
- Low initial pressure difference and long service life
- Positive Zeta charge results in removal efficiency for host DNA, HCP, etc.

#### Applications

- Clarification of fermentation broth/cell cultures
- Filtration of blood and blood products
- Filtration of enzyme preparation
- Filtration of colloids/viscous liquids

#### Filter Material

Filter Media	Cellulose diatomite filter aid and ionic wet-strength resin
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#### Operating Conditions

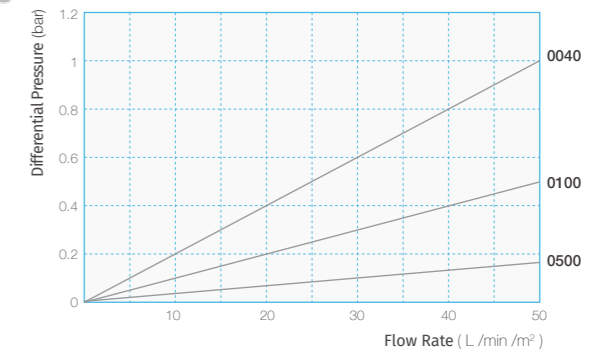
	Depth Filter	CDFC Capsule Filter
Max. Temperature	80°C	40°C
Max. Differential Pressure	0.24 MPa	0.3 MPa /40°C
Rinse	Flushing volume 50L/m <sup>2</sup> , Flow Rate 10L/min/m <sup>2</sup>	

#### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

#### EFA

Filter Forma	Single Layer	Double Layers
CDFC	23cm <sup>2</sup>	23cm <sup>2</sup>
L05	205cm <sup>2</sup>	150cm <sup>2</sup>
L10	450cm <sup>2</sup>	250cm <sup>2</sup>
CSCA	0.2m <sup>2</sup>	0.15m <sup>2</sup>
CSCB	1.16m <sup>2</sup>	1m <sup>2</sup>
CSD 12" Per Layer	0.11m <sup>2</sup>	0.11m <sup>2</sup>
CSD 16" Per Layer	0.23m <sup>2</sup>	0.23m <sup>2</sup>



#### Chemical Compatibility

Chemicals	Concentration	@20°C	@80°C
NaOH	2%	G	P
HCl	5%	G	P
HNO <sub>3</sub>	5%	G	P
H <sub>2</sub> SO <sub>4</sub>	10%	G	P
Acetic acid	38%	G	G
Citric acid	10%	G	G
Peracetic acid	0.1%	G	G
Butanol	80%	G	G
Ethanol	80%	G	G

G = Recommended ; P = Not recommended

#### Leachables


B Series	Ion	ppb	Ion	ppb	D Series	Ion	ppb	Ion	ppb
	Mg	0.73	Ni	-		Mg	0.755	Ni	-
	Al	5.33	Cu	0.162		Al	3.86	Cu	-
	Ca	5.65	As	0.987		Ca	1.48	As	-
	Cr	0.071	Pb	-		Cr	0.082	Pb	-
	Fe	13.1				Fe	3.28		

Explanation: - means < 0.05ppb


# Roheap Depth Part Number Configurator

Capsule Filter Example : CDFCSCSD0004PBP

## Roheap CDFC Capsule Filter

<b>C D F C</b>	<input type="checkbox"/>	<b>C S D</b>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<b>P</b>
Filter Format	Number of Layers	Filter Media	Removal Ratings	Control Grade	Market
	<b>S</b> Single-Layer <b>D</b> Double-Layer		<p>Single-Layer</p> <p><b>H001</b></p> <p><b>H002</b></p> <p><b>0004</b> 0.04-0.2µm</p> <p><b>0020</b> 0.2-0.4µm</p> <p><b>0040</b> 0.4-0.6µm</p> <p><b>0060</b> 0.6-0.8µm</p> <p><b>0100</b> 0.8-1.5µm</p> <p><b>0150</b> 1.5-3.0µm</p> <p><b>0300</b> 3.0-6.0µm</p> <p><b>0400</b> 4.0-9.0µm</p> <p><b>0500</b> 5.0-12.0µm</p> <p><b>0600</b> 6.0-15.0µm</p> <p><b>0700</b> 7.0-18.0µm</p> <p><b>0800</b> 8.0-20.0µm</p> <p>Double-Layer</p> <p><b>HOHP</b> 0.02-0.2µm</p> <p><b>0102</b> 0.04-0.4µm</p> <p><b>0106</b> 0.04-0.8µm</p> <p><b>0140</b> 0.04-9.0µm</p> <p><b>4070</b> 4.0-18.0µm</p>	<b>PB</b> High removal rating <b>PC</b> High dirt holding capacity	<b>P</b> Pharmaceutical

## Claricap Depth Capsule

<b>C S C</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<b>P</b>
Filter Format	Size	Number of Layers	Removal Ratings	Control Grade	Market
	<b>A</b> 8 inch <b>B</b> 16 inch	<b>S</b> Single-Layer <b>D</b> Double-Layer	<p>Single-Layer</p> <p><b>H001</b></p> <p><b>H002</b></p> <p><b>0004</b> 0.04-0.2µm</p> <p><b>0020</b> 0.2-0.4µm</p> <p><b>0040</b> 0.4-0.6µm</p> <p><b>0060</b> 0.6-0.8µm</p> <p><b>0100</b> 0.8-1.5µm</p> <p><b>0150</b> 1.5-3.0µm</p> <p><b>0300</b> 3.0-6.0µm</p> <p><b>0400</b> 4.0-9.0µm</p> <p><b>0500</b> 5.0-12.0µm</p> <p><b>0600</b> 6.0-15.0µm</p> <p><b>0700</b> 7.0-18.0µm</p> <p><b>0800</b> 8.0-20.0µm</p> <p>Double-Layer</p> <p><b>HOHP</b> 0.02-0.2µm</p> <p><b>0102</b> 0.04-0.4µm</p> <p><b>0106</b> 0.04-0.8µm</p> <p><b>0140</b> 0.04-9.0µm</p> <p><b>4070</b> 4.0-18.0µm</p>	<b>PB</b> High removal rating <b>PC</b> High dirt holding capacity	<b>P</b> Pharmaceutical

## Bricap L05/L10 Capsule Filter

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<b>C S D</b>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<b>P</b>
Filter Format	End Cap	Filter Media	Number of Layers	Removal Ratings	Control Grade	Market
<b>L05</b> 5 inch <b>L10</b> 10 inch	<b>SS</b> 1 1/2" (38 mm) Sanitary Flange		<b>S</b> Single-Layer <b>D</b> Double-Layer	<p>Single-Layer</p> <p><b>H001</b></p> <p><b>H002</b></p> <p><b>0004</b> 0.04-0.2µm</p> <p><b>0020</b> 0.2-0.4µm</p> <p><b>0040</b> 0.4-0.6µm</p> <p><b>0060</b> 0.6-0.8µm</p> <p><b>0100</b> 0.8-1.5µm</p> <p><b>0150</b> 1.5-3.0µm</p> <p><b>0300</b> 3.0-6.0µm</p> <p><b>0400</b> 4.0-9.0µm</p> <p><b>0500</b> 5.0-12.0µm</p> <p><b>0600</b> 6.0-15.0µm</p> <p><b>0700</b> 7.0-18.0µm</p> <p><b>0800</b> 8.0-20.0µm</p> <p>Double-Layer</p> <p><b>HOHP</b> 0.02-0.2µm</p> <p><b>0102</b> 0.04-0.4µm</p> <p><b>0106</b> 0.04-0.8µm</p> <p><b>0140</b> 0.04-9.0µm</p> <p><b>4070</b> 4.0-18.0µm</p>	<b>PB</b> High removal rating <b>PC</b> High dirt holding capacity	<b>P</b> Pharmaceutical

## CSD Depth Filter

<b>C S D</b>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<b>D O E</b>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>P</b>
Filter Format	Media Layers	Removal Ratings	Control Grade	End Cap	Diameter	Number of Layers	O-ring Material		Market	
<b>CSD</b>	<b>S</b> Single-Layer <b>D</b> Double-Layer	<p>Single-Layer</p> <p><b>H001</b></p> <p><b>H002</b></p> <p><b>0004</b> 0.04-0.2µm</p> <p><b>0020</b> 0.2-0.4µm</p> <p><b>0040</b> 0.4-0.6µm</p> <p><b>0060</b> 0.6-0.8µm</p> <p><b>0100</b> 0.8-1.5µm</p> <p><b>0150</b> 1.5-3.0µm</p> <p><b>0300</b> 3.0-6.0µm</p> <p><b>0400</b> 4.0-9.0µm</p> <p><b>0500</b> 5.0-12.0µm</p> <p><b>0600</b> 6.0-15.0µm</p> <p><b>0700</b> 7.0-18.0µm</p> <p><b>0800</b> 8.0-20.0µm</p> <p>Double-Layer</p> <p><b>HOHP</b> 0.02-0.2µm</p> <p><b>0102</b> 0.04-0.4µm</p> <p><b>0106</b> 0.04-0.8µm</p> <p><b>0140</b> 0.04-9.0µm</p> <p><b>4070</b> 4.0-18.0µm</p>	<b>PB</b> High removal rating <b>PC</b> High dirt holding capacity	<b>12</b> 12 inch <b>16</b> 16 inch	<b>A</b> 1 Layer <b>W</b> 2 Layers <b>Y</b> 3 Layers <b>G</b> 4 Layers <b>B</b> 5 Layers <b>N</b> 9 Layers <b>X</b> 10 Layers <b>Q</b> 11 Layers (only for single-layer media) <b>T</b> 12 Layers (only for single-layer media) <b>F</b> 15 Layers (only for single-layer media) <b>D</b> 16 Layers (only for single-layer media)	<b>S</b> Silicone <b>E</b> EPDM <b>V</b> Fluoroelastomer <b>T</b> FEP/PFA encapsulated O-rings <b>F</b> Fluorinated Polymer	<b>P</b> Pharmaceutical			

Clarification Filter Series

# Greclary CHV Filter

High Dirt Holding Capacity and Retention Efficiency

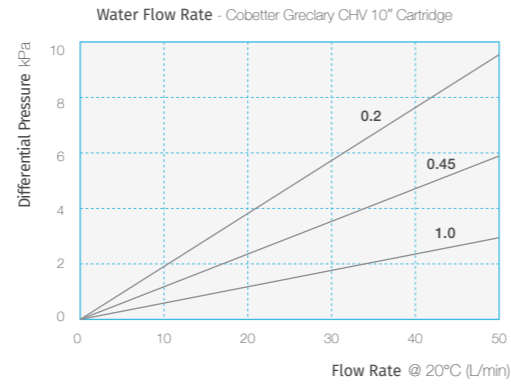


**Features**

- Composed of super-fine glass fiber media
- Rigid fiber material which is suitable for colloid filtration
- High dirt holding capacity and retention efficiency
- Low initial pressure, high flow rates and long service life

**Applications**

- Pre-filtration of cell culture medium
- Clarification of fermentation broth/cell cultures
- Filtration blood products/serums
- Filtration of colloids/viscous liquids



**Operating Conditions**

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

**Biological Safety**

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

**Materials of Construction**

Filter Type	Bricap C/L/T	Cartridge
Membrane	Glass Microfiber (GF)	Glass Microfiber (GF)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.2/0.45/0.8/1.0/3.0/5.0µm	—

**Effective Filtration Area**

Bricap C	Bricap L	Bricap T	Cartridge
C01: 80cm <sup>2</sup>	L03: 0.07m <sup>2</sup>	T10: 0.24m <sup>2</sup>	5" : 0.12m <sup>2</sup>
C02: 200cm <sup>2</sup>	L05: 0.12m <sup>2</sup>	T20: 0.48m <sup>2</sup>	10" : 0.24m <sup>2</sup>
C03: 300cm <sup>2</sup>	L10: 0.24m <sup>2</sup>	T30: 0.72m <sup>2</sup>	20" : 0.48m <sup>2</sup>
	L20: 0.48m <sup>2</sup>		30" : 0.72m <sup>2</sup>
	L30: 0.72m <sup>2</sup>		40" : 0.96m <sup>2</sup>

**Sterilization Capability**

- Bricap C, Bricap L, Bricap T Series
- Filter Cartridges: Autoclave & SIP

# Greclary Series Part Number Configurator (GF)

Capsule Filter Example : C01TTCHV02A1P

**Bricap C Small Capsule Filter Series**

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capsule Formats	Inlet	Outlet	Membrane Type	Sterilization	Quantity/Package	Market
<b>C01</b> Bricap C01 <b>C02</b> Bricap C02 <b>C03</b> Bricap C03 <b>D01</b> Bricap D01	<b>K</b> 14 mm (9/16") Sanitary Flange <b>T</b> 19 mm (3/4") Sanitary Flange <b>F</b> 31 mm (1 1/4") Sanitary Flange <b>A</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids only) <b>B</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb <b>L</b> 3.2mm(1/8") Hose Barb <b>Y</b> 9.6mm(3/8") Hose Barb <b>H</b> 13mm(1/2") Hose Barb <b>V</b> 14 mm (9/16") Hose Barb		<b>CHV02</b> CHV 0.2µm <b>CHV04</b> CHV 0.45µm <b>CHV08</b> CHV 0.8µm <b>CHV10</b> CHV 1.0µm <b>CHV30</b> CHV 3.0µm <b>CHV50</b> CHV 5.0µm	<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>

**Bricap Inline Capsule Filters Series**

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package	Market
<b>L03</b> Bricap L03 <b>L05</b> Bricap L05 <b>L10</b> Bricap L10 <b>L20</b> Bricap L20 <b>L30</b> Bricap L30	<b>S</b> 1 1/2" (38 mm) Sanitary Flange <b>T</b> 3/4" (19 mm) Sanitary Flange <b>K</b> 9/16" (14 mm) Sanitary Flange <b>D</b> 1" (25 mm) Hose Barb <b>M</b> 3/4" (19 mm) Hose Barb <b>X</b> 5/8" (16 mm) Hose Barb <b>V</b> 9/16" (14 mm) Hose Barb <b>H</b> 1/2" (13 mm) Hose Barb			<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>

**Bricap T Capsule**

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package	Market
<b>T10</b> Bricap T10 <b>T20</b> Bricap T20 <b>T30</b> Bricap T30	<b>S</b> 1 1/2" (38 mm) Sanitary Flange <b>T</b> 3/4" (19 mm) Sanitary Flange <b>K</b> 9/16" (14 mm) Sanitary Flange <b>N</b> without Gauge Port			<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>

# Cartridge Filter Example : ACHV02050S1P

**Cartridge Filters**

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cartridge Type	Media	Length	Code	O-ring Material	Quantity/Package	Market
<b>A</b> Standard Cartridge Pharmaceutical	<b>CHV02</b> CHV 0.2µm <b>CHV04</b> CHV 0.45µm <b>CHV08</b> CHV 0.8µm <b>CHV10</b> CHV 1.0µm <b>CHV30</b> CHV 3.0µm <b>CHV50</b> CHV 5.0µm	<b>05</b> 5 inch <b>10</b> 10 inch <b>20</b> 20 inch <b>30</b> 30 inch <b>40</b> 40 inch	<b>0</b> DOE <b>2</b> 226 / Flat <b>7</b> 226 / Fin <b>3</b> 222 / Flat <b>8</b> 222 / Fin	<b>E</b> EPDM <b>V</b> Fluoroelastomer <b>S</b> Silicone <b>P</b> FEP/PFA encap-sulated O-rings	<b>1</b> 1 / pkg	<b>P</b>





## Clarification Filter Series

### Excesal CHT High Dirt Holding



#### Features

- Composed of multi-layer Polypropylene media
- High retention efficiency
- All raw materials meet NSF requirements No adhesives or surfactants

#### Applications

- Pre-filtration of cell culture medium
- Clarification of fermentation broth/cell cultures
- Pre-filtration blood products/serums
- Pre-filtration of colloids/viscous liquids

#### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

#### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

#### Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Polypropylene (PP)	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.5/0.6/0.8/1.5/5.0/10/20/40/70/90µm	

#### Effective Filtration Area

Bricap C	Bricap L	Bricap T	Cartridge
C01: 70cm <sup>2</sup>	L02: 375cm <sup>2</sup>	T10: 0.18m <sup>2</sup>	5" : 0.09m <sup>2</sup>
C02: 160cm <sup>2</sup>	L03: 530cm <sup>2</sup>	T20: 0.36m <sup>2</sup>	10" : 0.18m <sup>2</sup>
C03: 260cm <sup>2</sup>	L05: 0.09m <sup>2</sup>	T30: 0.54m <sup>2</sup>	20" : 0.36m <sup>2</sup>
	L10: 0.18m <sup>2</sup>		30" : 0.54m <sup>2</sup>
	L20: 0.36m <sup>2</sup>		40" : 0.72m <sup>2</sup>
	L30: 0.54m <sup>2</sup>		

#### Sterilization Capability

- Bricap C, Bricap L, Bricap T Series
- Filter Cartridges: Autoclave & SIP

## Clarification Filter Series

### Excesal CHE High Retention Efficiency



#### Features

- Composed of double-layer Polypropylene media
- Inner layer uses nanofibers to provide high retention efficiency

#### Applications

- Pre-filtration of cell culture medium
- Clarification of fermentation broth/cell cultures
- Pre-filtration of blood products/serums
- Pre-filtration of colloids/viscous liquids

#### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

#### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

#### Effective Filtration Area

BriScale A50	Bricap C	Bricap L	Bricap T	Cartridge
A50: 20cm <sup>2</sup>	C01: 140cm <sup>2</sup>	L03: 0.1m <sup>2</sup>	T10: 0.36m <sup>2</sup>	5" : 0.18m <sup>2</sup>
	C02: 320cm <sup>2</sup>	L05: 0.18m <sup>2</sup>	T20: 0.72m <sup>2</sup>	10" : 0.36m <sup>2</sup>
	C03: 500cm <sup>2</sup>	L10: 0.36m <sup>2</sup>	T30: 1.08m <sup>2</sup>	20" : 0.72m <sup>2</sup>
		L20: 0.72m <sup>2</sup>		30" : 1.08m <sup>2</sup>
		L30: 1.08m <sup>2</sup>		40" : 1.44m <sup>2</sup>

#### Sterilization Capability

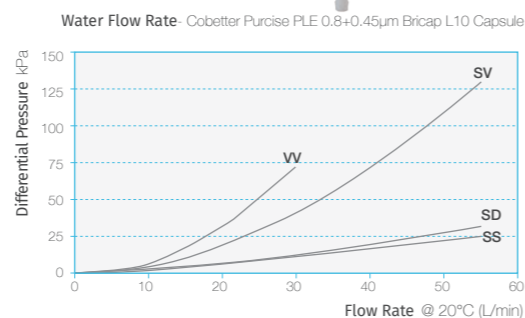
- BriScale Disc, Bricap C, Bricap L, Bricap T Series and Filter Cartridges : Autoclave



Pre-filtration and Redundant Filter Series

## Purcise PLE Filter

Hydrophilic Filter with Low Extractables



### Features

- Composed of double-layer hydrophilic Polyestersulfone media
- Efficient bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- Low extractables

### Applications

- Pre-filtration of cell culture medium
- Buffer filtration
- Pre-column/ ultra-filtration protection

### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

### Material of Construction

Filter Type	Bricap C/D/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.8+0.45 µm / 1.0+0.65 µm / 1.5+0.8 µm	

### Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm <sup>2</sup>	C01 : 180cm <sup>2</sup>	L02: 0.12m <sup>2</sup>	T10: 0.55m <sup>2</sup>	5" : 0.28m <sup>2</sup>
	C02 : 420cm <sup>2</sup>	L03: 0.16m <sup>2</sup>	T20: 1.1m <sup>2</sup>	10" : 0.55m <sup>2</sup>
	C03 : 660cm <sup>2</sup>	L05: 0.28m <sup>2</sup>	T30: 1.65m <sup>2</sup>	20" : 1.1m <sup>2</sup>
	D01 : 350cm <sup>2</sup>	L10: 0.55m <sup>2</sup>		30" : 1.65m <sup>2</sup>
		L20: 1.1m <sup>2</sup>		40" : 2.2m <sup>2</sup>
		L30: 1.65m <sup>2</sup>		

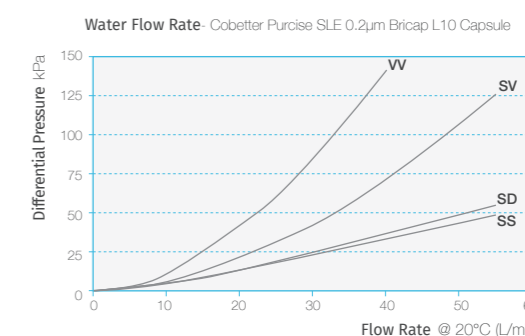
### Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricap C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45Kgy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 30min	/	/
Autoclave (130°C) applies only to Atoclave package	25 cycle,30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

Sterile-Grade Filter Series

## Purcise SLE Filter

Hydrophilic Sterile-Grade Filter with Low Extractables



### Features

- Efficient bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- Low extractables and low protein binding

### Applications

- Sterilize filtration of cell culture medium
- Buffer filtration
- Pre-column/ultra-filtration protection
- Filtration of intermediate products/stock solutions
- Filtration of blood products/serums
- Sterile filtration of terminal products
- Filtration of colloids/viscous liquids

### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

### Materials of Construction

Filter Type	Bricap C/D/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Support	Polypropylene (PP)	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.2 µm / 0.45+0.2 µm / 0.65+0.2 µm 0.8+0.2 µm / 1.2+0.2 µm	

### Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm <sup>2</sup>	C01 : 180cm <sup>2</sup>	L02: 0.12m <sup>2</sup>	T10: 0.55m <sup>2</sup>	5" : 0.28m <sup>2</sup>
	C02 : 420cm <sup>2</sup>	L03: 0.16m <sup>2</sup>	T20: 1.1m <sup>2</sup>	10" : 0.55m <sup>2</sup>
	C03 : 660cm <sup>2</sup>	L05: 0.28m <sup>2</sup>	T30: 1.65m <sup>2</sup>	20" : 1.1m <sup>2</sup>
	D01 : 350cm <sup>2</sup>	L10: 0.55m <sup>2</sup>		30" : 1.65m <sup>2</sup>
		L20: 1.1m <sup>2</sup>		40" : 2.2m <sup>2</sup>
		L30: 1.65m <sup>2</sup>		

### Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricap C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45Kgy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 30min	/	/
Autoclave (130°C) applies only to Atoclave package	25 cycle,30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

## Pre-filtration and Redundant Filter Series

### Corevital PME High Dirt Holding Capacity



#### Features

- Composed of double-layer Polyestersulfone media
- Extensive chemical compacity
- High dirt holding capacity

#### Applications

- Sterilize filtration of cell culture medium
- Buffer filtration
- Pre-column/ ultra-filtration protection

#### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

#### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

#### Materials of Construction

Filter Type	Bricap C/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	1.0+0.2µm	

#### Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm <sup>2</sup>	C01 : 180cm <sup>2</sup>	L02 : 0.12m <sup>2</sup>	T10 : 0.55m <sup>2</sup>	5" : 0.28m <sup>2</sup>
	C02 : 420cm <sup>2</sup>	L03 : 0.16m <sup>2</sup>	T20 : 1.1m <sup>2</sup>	10" : 0.55m <sup>2</sup>
	C03 : 660cm <sup>2</sup>	L05 : 0.28m <sup>2</sup>	T30 : 1.65m <sup>2</sup>	20" : 1.1m <sup>2</sup>
	D01 : 350cm <sup>2</sup>	L10 : 0.55m <sup>2</sup>		30" : 1.65m <sup>2</sup>
		L20 : 1.1m <sup>2</sup>		40" : 2.2m <sup>2</sup>
		L30 : 1.65m <sup>2</sup>		

#### Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45Kgy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 30min	/	/
Autoclave (130°C) applies only to Atoclave package	25 cycle,30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

## Sterile-Grade Filter Series

### Purcise SAF Filter Hydrophilic Sterile-Grade Filter with High Flow Rates



#### Features

- Efficient bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- High flow rates

#### Applications

- Sterilize filtration of cell culture medium
- Buffer filtration
- Pre-column/ ultra-filtration protection
- Filtration of intermediate products/stock solutions
- Filtration of blood products/serums
- Sterile filtration of terminal products

#### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

#### Biological Safety

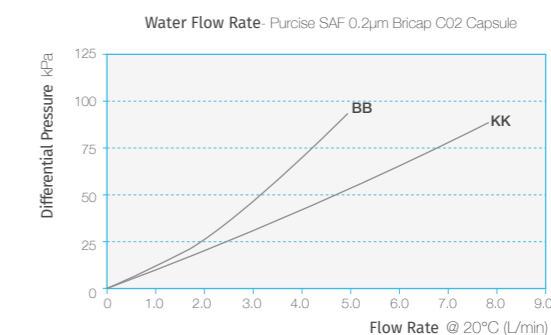
Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

#### Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm <sup>2</sup>	C01 : 180cm <sup>2</sup>	L02: 0.12m <sup>2</sup>	T10: 0.55m <sup>2</sup>	5" : 0.28m <sup>2</sup>
	C02 : 420cm <sup>2</sup>	L03: 0.16m <sup>2</sup>	T20: 1.1m <sup>2</sup>	10" : 0.55m <sup>2</sup>
	C03 : 660cm <sup>2</sup>	L05: 0.28m <sup>2</sup>	T30: 1.65m <sup>2</sup>	20" : 1.1m <sup>2</sup>
	D01 : 350cm <sup>2</sup>	L10: 0.55m <sup>2</sup>		30" : 1.65m <sup>2</sup>
		L20: 1.1m <sup>2</sup>		40" : 2.2m <sup>2</sup>
		L30: 1.65m <sup>2</sup>		

#### Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricale C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45Kgy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 30min	/	/
Autoclave (130°C) applies only to Atoclave package	25 cycle,30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min



#### Materials of Construction

Filter Type	Bricap C/D/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Support	Polyester (PET)	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	Polypropylene (PP)
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.45+0.2 µm / 0.65+0.2 µm	

## Sterile-Grade Filter Series

# Purcise SPS Filter

## Hydrophilic Sterile-Grade Steam-in-Place (SIP) Filter

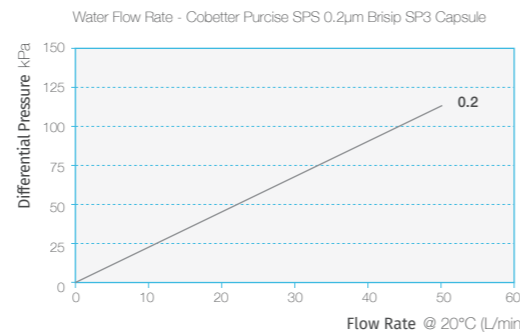


### Features

- Efficient bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- Low extractables
- SIP

### Applications

- Sterilize filtration of cell culture medium
- Buffer filtration
- Pre-column/ultra-filtration protection
- Filtration of intermediate products/stock solutions
- Filtration of blood products/serums
- Sterile filtration of terminal products
- Filtration of colloids/viscous liquids



### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

### Sterilization Capability

- **Brisip SP3** : Autoclave is optional (131°C, 30min, 10 times), SIP (135°C, 60 min, 8 times)

## Purcise SPS (Liquid) Series Part Number Configurator (PES)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet Outlet	Membrane Type	Vent Valve / Drain Valve	Quantity/Package	Market
<b>SP3</b> Brisip® SP3	<b>S</b> 1 1/2" (38 mm) Sanitary Flange	<b>SPSN</b> SPS 0.2µm	<b>P</b> 6 mm Hose Barb <b>X</b> Vent Stäubli Connector Drain 6 mm Hose Barb <b>T</b> Stäubli Connector	<b>1</b> 1 / pkg	<b>P</b>

### Materials of Construction

Filter Type	<b>Brisip SP3</b>
Membrane	Hydrophilic Polyethersulfone (PES)
Support	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)
Capsule Shell	Polyetherimide (PEI)
Capsule Vent O-ring	Silicone
Removal Ratings	0.2 µm
Filtration Area	0.15 m <sup>2</sup>

## Mycoplasma Removal Filter Series

# Purcise MLE Filter

## Hydrophilic Filter with Low Extractables



### Features

- Composed of a double-layer hydrophilic Polyestersulfone (PES) media
- Efficient mycoplasma, bacteria and particulate retention
- Extensive chemical compatibility (pH 1-14)
- Low extractables

### Applications

- Sterilize filtration of cell culture medium
- Pre-column/ultra-filtration protection
- Filtration of intermediate products/stock solutions
- Filtration of blood products/serums
- Sterile filtration of terminal products

### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

### Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm <sup>2</sup>	C01 : 180cm <sup>2</sup> C02 : 420cm <sup>2</sup> C03 : 660cm <sup>2</sup>	L02: 0.12m <sup>2</sup> L03: 0.16m <sup>2</sup> L05: 0.28m <sup>2</sup>	T10: 0.55m <sup>2</sup> T20: 1.1m <sup>2</sup> T30: 1.65m <sup>2</sup>	5" : 0.28m <sup>2</sup> 10" : 0.55m <sup>2</sup> 20" : 1.1m <sup>2</sup> 30" : 1.65m <sup>2</sup> 40" : 2.2m <sup>2</sup>
		D01 : 350cm <sup>2</sup> L10: 0.55m <sup>2</sup> L20: 1.1m <sup>2</sup> L30: 1.65m <sup>2</sup>		

### Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricap C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45Kgy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 30min	/	/
Autoclave (130°C) applies only to Autoclave package	25 cycle,30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

### Materials of Construction

Filter Type	Bricap C/D/L/T	Cartridge
Membrane	Hydrophilic Polyethersulfone (PES)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	0.2+0.1 µm / 0.45+ 0.1 µm	



## Corevital PMD

### Low Protein Binding and Hydrophilic Filter



#### Features

- Composed of double-layer PES membrane
- Extensive chemical compatibility
- High dirt holding capacity
- Low protein binding

#### Applications

- Pre-filtration of cell culture medium
- Buffer filtration
- Pre-filtration of terminal products
- Pre-column/ultra-filtration protection

#### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

#### Materials of Construction

Filter Type	<b>Bricap C/L/T</b>	Cartridge
Membrane	Polyvinylidene fluoride (PVDF)	
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	—
O-ring	—	Silicone/EPDM/Viton/PTFE
Capsule Vent O-ring	Silicone	—
Removal Ratings	1.0+0.45 µm	

#### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

#### Effective Filtration Area

BriScale A50	Bricap C/D	Bricap L	Bricap T	Cartridge
A50: 20cm <sup>2</sup>	C01 : 180cm <sup>2</sup>	L02 : 0.12m <sup>2</sup>	T10 : 0.55m <sup>2</sup>	5" : 0.28m <sup>2</sup>
	C02 : 420cm <sup>2</sup>	L03 : 0.16m <sup>2</sup>	T20 : 1.1m <sup>2</sup>	10" : 0.55m <sup>2</sup>
	C03 : 660cm <sup>2</sup>	L05 : 0.28m <sup>2</sup>	T30 : 1.65m <sup>2</sup>	20" : 1.1m <sup>2</sup>
	D01 : 350cm <sup>2</sup>	L10 : 0.55m <sup>2</sup>		30" : 1.65m <sup>2</sup>
		L20 : 1.1m <sup>2</sup>		40" : 2.2m <sup>2</sup>
		L30 : 1.65m <sup>2</sup>		

#### Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricap C / L / T	Bricap D	Cartridge
Gamma-irradiation	25-45Kgy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 60min	/	/
Autoclave (130°C) applies only to Atoclave package	25 cycle, 30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

## Corevital (Liquid) Series Part Number Configurator (PVDF)

### Capsule Filter Example : C01TTSNDBA1P

#### Bricap C Small Capsule Filter Series

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capsule Formats	Inlet	Outlet	Membrane Type	Sterilization	Quantity/Package
<b>C01</b> Bricap C01	<b>K</b> 14 mm (9/16") Sanitary Flange		<b>PNDS</b> PND 0.8+0.45µm	<b>A</b> Autoclavable	<b>1</b> 1 / pkg
<b>C02</b> Bricap C02	<b>T</b> 19 mm (3/4") Sanitary Flange		<b>PMDS</b> PMD 1.0+0.45µm	<b>G</b> Gamma Compatible	
<b>C03</b> Bricap C03	<b>F</b> 31 mm (1 1/4") Sanitary Flange		<b>SMDN</b> SMD 0.2µm	<b>S</b> Sterile	
<b>D01</b> Bricap D01	<b>A</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids only)		<b>SMDS</b> SMD 0.45+0.2µm		
	<b>B</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb		<b>SMDH</b> SMD 0.65+0.2µm		
	<b>L</b> 3.2mm(1/8") Hose Barb		<b>SMDA</b> SMD 0.2+0.1µm		
	<b>Y</b> 9.6mm(3/8") Hose Barb				
	<b>H</b> 13mm(1/2") Hose Barb				

#### Bricap Inline Capsule Filters Series

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package
<b>L02</b> Bricap L02	<b>S</b> 1 1/2" (38 mm) Sanitary Flange			<b>A</b> Autoclavable	<b>1</b> 1 / pkg
<b>L03</b> Bricap L03	<b>T</b> 3/4" (19 mm) Sanitary Flange			<b>G</b> Gamma Compatible	
<b>L05</b> Bricap L05	<b>K</b> 9/16" (14 mm) Sanitary Flange			<b>S</b> Sterile	
<b>L10</b> Bricap L10	<b>D</b> 1" (25 mm) Hose Barb				
<b>L20</b> Bricap L20	<b>M</b> 3/4" (19 mm) Hose Barb				
<b>L30</b> Bricap L30	<b>X</b> 5/8" (16 mm) Hose Barb				
	<b>V</b> 9/16" (14 mm) Hose Barb				
	<b>H</b> 1/2" (13 mm) Hose Barb				

#### Bricap T Capsule

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package
<b>T10</b> Bricap T10	<b>S</b> 1 1/2" (38 mm) Sanitary Flange			<b>A</b> Autoclavable	<b>1</b> 1 / pkg
<b>T20</b> Bricap T20	<b>T</b> 3/4" (19 mm) Sanitary Flange			<b>G</b> Gamma Compatible	
<b>T30</b> Bricap T30	<b>K</b> 9/16" (14 mm) Sanitary Flange			<b>S</b> Sterile	
	<b>N</b> without Gauge Port				

#### BriScale Disc Liquid Filter

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package
<b>A50</b> BriScale A50	<b>A</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (outlet only)			<b>A</b> Autoclavable	<b>1</b> 1 / pkg
	<b>B</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb (no Filling Bell)			<b>G</b> Gamma Compatible	<b>2</b> 2 / pkg
				<b>S</b> Sterile	

### Cartridge Filter Example : APMDSB050S1P

#### Cartridge Filters

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cartridge Type	Media	Length	Code	O-ring Material	Quantity/Package	Market			
<b>A</b> Standard Cartridge Pharmaceutical	<b>PNDS</b> PND 0.8+0.45µm	<b>05</b> 5 inch	<b>0</b> DOE	<b>E</b> EPDM	<b>1</b> 1 / pkg	<b>P</b>			
	<b>PMDS</b> PMD 1.0+0.45µm	<b>10</b> 10 inch	<b>2</b> 226 / Flat	<b>V</b> Fluoroelastomer					
	<b>SMDN</b> SMD 0.2µm	<b>20</b> 20 inch	<b>7</b> 226 / Fin	<b>S</b> Silicone					
	<b>SMDS</b> SMD 0.45+0.2µm	<b>30</b> 30 inch	<b>3</b> 222 / Flat	<b>P</b> FEP/PFA encapsulated O-rings					
	<b>SMDH</b> SMD 0.65+0.2µm	<b>40</b> 40 inch	<b>8</b> 222 / Fin						



Gas Filtration Filter Series

# Aegivast ACE Filter

Hydrophobic Filter with High Retention Rates



**Features**

- High retention rates
- Low pressure differential
- Efficient mycoplasma, bacteria and particulate retention

**Applications**

- Vent Filters for fermentors, tanks, etc.
- Sterile-grade filtration for compressed air, oxygen, nitrogen, etc.

**Operating Conditions**

Max Operating Temperature	50°C
Max Differential Pressure	0.24 MPa / 25°C
	0.42 MPa / 25°C (only for V50D)

**Biological Safety**

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

**Materials of Construction**

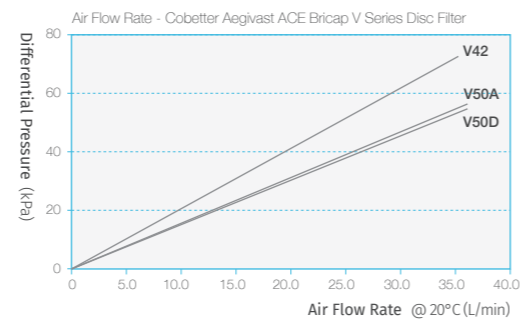
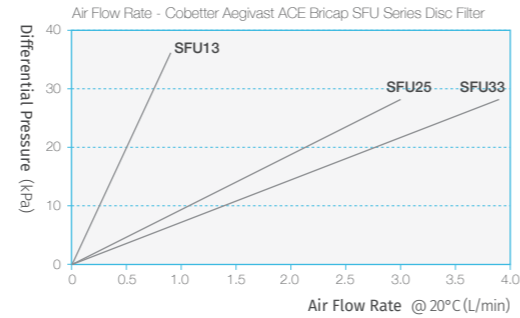
Type	Bricap SFU13 / SFU25 / SFU33	Bricap V42 / V50A / V50D
Membrane	Hydrophobic polytetrafluoroethylene(PTFE)	Hydrophobic polytetrafluoroethylene(PTFE)
Support layer	Polyester (PET)	Polyester or Polypropylene(PET/PP)
Core/Cage /End cap	Polypropylene(PP)	Polypropylene(PP)
Capsule shell	0.2 µm	

**Effective Filtration Area**

Bricap SFU	Bricap V
SFU13 : 0.72cm <sup>2</sup>	V42 : 13.8cm <sup>2</sup>
SFU25 : 3.4cm <sup>2</sup>	V50A : 20cm <sup>2</sup>
SFU33 : 4.5cm <sup>2</sup>	V50D : 20cm <sup>2</sup>

**Aegivast ACE Series Part Number Configurator (PTFE)**

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet Outlet	Membrane Type	Sterilization	Quantity/Package	Market
<b>U13</b> Bricap® SFU13 0.72cm <sup>2</sup>	<b>CP</b> Female Luer Lok™ Inlet and Male Luer Lok™ Outlet (Bricap SFU Series only)	<b>ACEB</b> ACE 0.2µm	<b>A</b> Autoclavable (Only Bricap V)	<b>1</b> 1 / pkg	<b>P</b>
<b>U25</b> Bricap® SFU25 3.4cm <sup>2</sup>	<b>EE</b> 1/4"-3/8" (6-9 mm) Stepped Hose Barb Inlet and Outlet (Bricap V42 only)		<b>G</b> Gamma Compatible	<b>2</b> 2 / pkg	
<b>U33</b> Bricap® SFU33 4.5cm <sup>2</sup>	<b>BB</b> 1/4"-1/2" (6-13 mm) Stepped Hose Barb Inlet and Outlet (Bricap V50A & V50D only)		<b>S</b> Sterile	<b>5</b> 5 / pkg ((Only V42)	
<b>V42</b> Bricap® V42 13.8cm <sup>2</sup>					
<b>V5A</b> Bricap® V50A 20cm <sup>2</sup>					
<b>V5D</b> Bricap® V50D 20cm <sup>2</sup>					



**Sterilization Capability**

- Bricap SFU13 / SFU25 / SFU33 Disc : Autoclave, Gamma Irradiation or Pre-sterilization optional
- Bricap V42/V50A/V50D Disc: Autoclave (130°C, 30min, 20 times), Gamma irradiation or Pre-sterilization

Gas Filtration Filter Series

# Safesure AFM Filter

Hydrophobic Filter with High Retention Rates



**Features**

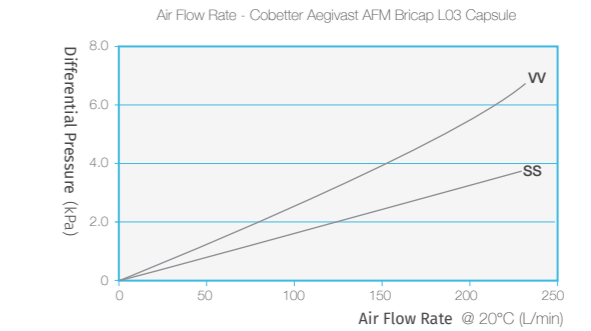
- Inherently hydrophobic membrane
- High retention rates
- Low pressure differential
- Efficient mycoplasma, bacteria and particulate retention

**Applications**

- Vent Filters for fermentors, tanks, etc.
- Sterile-grade filtration for air, oxygen, nitrogen, etc.

**Operating Conditions**

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C
	0.1 MPa / 80°C



**Biological Safety**

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

**Materials of Construction**

Filter Type	Bricap L/T	Brisip SP3	Cartridge
Membrane	Hydrophobic Polytetrafluoroethylene (PTFE)		
Support	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)
Core/Cage/End Cap	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)
Capsule Shell	Polypropylene (PP)	PEI polyetherimide (PEI)	---
O-ring	---	Silicone	Silicone
Capsule Vent O-ring	Silicone	Silicone	---
Removal Ratings	0.2 µm		

**Effective Filtration Area**

Bricap C	Bricap L	Bricap T	Brisip SP3	Cartridge
C01 : 200cm <sup>2</sup>	L02 : 0.14m <sup>2</sup>	T10 : 0.68m <sup>2</sup>	0.2m <sup>2</sup>	5" : 0.34m <sup>2</sup>
C02 : 480cm <sup>2</sup>	L03 : 0.2m <sup>2</sup>	T20 : 1.36m <sup>2</sup>		10" : 0.68m <sup>2</sup>
C03 : 750cm <sup>2</sup>	L05 : 0.34m <sup>2</sup>	T30 : 2.04m <sup>2</sup>		20" : 1.36m <sup>2</sup>
	L10 : 0.68m <sup>2</sup>			30" : 2.04m <sup>2</sup>
	L20 : 1.36m <sup>2</sup>			40" : 2.72m <sup>2</sup>
	L30 : 2.04m <sup>2</sup>			

**Sterilization Capability**

- Bricap L, Bricap T : Autoclave
- Brisip SP3, Filter Cartridge : Autoclave & SIP

# Aegivast (Gas) Series Part Number Configurator (PTFE)

Capsule Filter Example : L03TTAFMBA1P

## Bricap Inline Capsule Filters Series

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet	Outlet	Membrane Type	Sterilization	Quantity/Package	Market
<b>L02</b> Bricap L02	<b>S</b> 1 1/2" (38 mm) Sanitary Flange		<b>AFMB</b> AFM 0.2µm	<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>
<b>L03</b> Bricap L03	<b>T</b> 3/4" (19 mm) Sanitary Flange					
<b>L05</b> Bricap L05	<b>K</b> 9/16" (14 mm) Sanitary Flange					
<b>L10</b> Bricap L10	<b>D</b> 1" (25 mm) Hose Barb					
<b>L20</b> Bricap L20	<b>M</b> 3/4" (19 mm) Hose Barb					
<b>L30</b> Bricap L30	<b>X</b> 5/8" (16 mm) Hose Barb					
	<b>V</b> 9/16" (14 mm) Hose Barb					
	<b>H</b> 1/2" (13 mm) Hose Barb					

## Bricap T Capsule

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package	Market
<b>T10</b> Bricap T10	<b>S</b> 1 1/2" (38 mm) Sanitary Flange			<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>
<b>T20</b> Bricap T20	<b>T</b> 3/4" (19 mm) Sanitary Flange					
<b>T30</b> Bricap T30	<b>K</b> 9/16" (14 mm) Sanitary Flange					
	<b>N</b> without Gauge Port					

## Bricap SFU/V Disc Gas Filters

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package	Market
<b>U13</b> Bricap SFU13	<b>CP</b> Female Luer Lok™ Inlet and Male Luer Lok™ Outlet (Bricap SFU Series only)			<b>A</b> Autoclavable	<b>1</b> 1 / pkg	<b>P</b>
<b>U25</b> Bricap SFU25						
<b>U33</b> Bricap SFU33	<b>EE</b> 1/4"-3/8" (6-9 mm) Stepped Hose Barb Inlet and Outlet (Bricap V42 only)					
<b>V42</b> Bricap V42						
<b>V5A</b> Bricap V50A	<b>BB</b> 1/4"-1/2" (6-13 mm) Stepped Hose Barb Inlet and Outlet (Bricap V50A & V50D only)					
<b>V5D</b> Bricap V50D						

## Brisip Steam-in-Place Capsule Filters

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet	Outlet		Vent/ Drain	Quantity/Package	Market
<b>SP3</b> BrisipSP3	<b>S</b> 1 1/2" (38 mm) Sanitary Flange			<b>P</b> 6 mm Hose Barb	<b>1</b> 1 / pkg	<b>P</b>
				<b>X</b> Vent Stäubli Connector Drain 6 mm Hose Barb		
				<b>T</b> Stäubli Connector		

# Cartridge Filter Example : AAFMB050S1P

## Cartridge Filters

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cartridge Type	Media	Length	Code	O-ring Material	Quantity/Package	Market
<b>A</b> Standard Cartridge Pharmaceutical	<b>AFMB</b> AFM 0.2µm	<b>05</b> 5 inch	<b>0</b> DOE	<b>E</b> EPDM	<b>1</b> 1 / pkg	<b>P</b>
		<b>10</b> 10 inch	<b>2</b> 226 / Flat	<b>V</b> Fluoroelastomer		
		<b>20</b> 20 inch	<b>7</b> 226 / Fin	<b>S</b> Silicone		
		<b>30</b> 30 inch	<b>3</b> 222 / Flat	<b>P</b> FEP/PFA encap-sulated O-rings		
		<b>40</b> 40 inch	<b>8</b> 222 / Fin			

## Gas Filtration Filter Series

# Corevital APB Filter Gamma-resistant Hydrophobic Filter

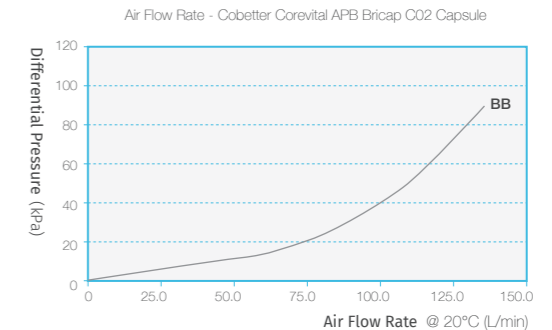


### Features

- High retention efficiency
- Low differential pressure
- Efficient bacteria and particulate retention
- Gamma irradiation

### Applications

- Vent Filters for fermentors, tanks, etc.
- Sterile-grade filtration for compressed air, oxygen, nitrogen etc.



### Operating Conditions

Max. Temperature	80°C
Max. Differential Pressure	0.55 MPa / 25°C 0.1 MPa / 80°C

### Biological Safety

Endotoxins	<0.25 EU/ml
Bio-compatibility	Meet the requirement of USP<87> In Vitro Cytotoxicity Test; Meet the criteria of the USP<88> Biological Reactivity Test for Class VI-121°C plastics

### Effective Filtration Area

Bricap SFU/V	Bricap C/D	Bricap L	Bricap T	Cartridge
SFU13 : 0.72cm <sup>2</sup>	C02 : 640cm <sup>2</sup>	L03 : 0.25m <sup>2</sup>	T10 : 0.75m <sup>2</sup>	5" : 0.375m <sup>2</sup>
SFU25 : 3.4cm <sup>2</sup>	C03 : 1000cm <sup>2</sup>	L05 : 0.375m <sup>2</sup>	T20 : 1.5m <sup>2</sup>	10" : 0.75m <sup>2</sup>
SFU33 : 4.5cm <sup>2</sup>	D01 : 450 cm <sup>2</sup>	L10 : 0.75m <sup>2</sup>	T30 : 2.25m <sup>2</sup>	20" : 1.5m <sup>2</sup>
V42 : 13.8cm <sup>2</sup>		L20 : 1.5m <sup>2</sup>		30" : 2.25m <sup>2</sup>
V50A : 20cm <sup>2</sup>		L30 : 2.25m <sup>2</sup>		40" : 3.0m <sup>2</sup>
V50D : 20cm <sup>2</sup>				

### Sterilization Capability

Sterilization Method/Filter Format	BriScale Disc, Bricap C/ L / T	Bricap D	Cartridge
Gamma-irradiation	25-45Kgy	/	/
Autoclave (126°C) applies only to Gamma-compatible package	5 cycle, 30min	/	/
Autoclave (130°C) applies only to Atoclave package	25 cycle,30min	25 cycle, 30min	50 cycle, 30min
SIP (135°C) applies only to cartridge	/	/	50 cycle, 30min

# Corevital (Gas) Series Part Number Configurator (PVDF)

Capsule Filter Example :C01APBBSA1P | Cartridge Filter Example: AAPBB050S1P

## Bricap C Small Capsule Filter Series

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet	Outlet	Membrane Type	Sterilization	Quantity/Package	Market
<b>C02</b> Bricap C02 <b>C03</b> Bricap C03 <b>D01</b> Bricap D01	<b>K</b> 14 mm (9/16") Sanitary Flange <b>T</b> 19 mm (3/4") Sanitary Flange <b>F</b> 31 mm (1 1/4") Sanitary Flange <b>A</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb with Filling Bell (liquids only) <b>B</b> 6-13 mm (1/4"-1/2") Multiple Stepped Hose Barb <b>L</b> 3.2mm(1/8") Hose Barb <b>Y</b> 9.6mm(3/8") Hose Barb <b>H</b> 13mm(1/2") Hose Barb <b>V</b> 14 mm (9/16") Hose Barb		<b>APBB</b> APB 0.2µm	<b>A</b> Autoclavable <b>G</b> Gamma Compatible <b>S</b> Sterile	<b>1</b> 1 / pkg	<b>P</b>

## Bricap Inline Capsule Filters Series

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package	Market
<b>L02</b> Bricap L02 <b>L03</b> Bricap L03 <b>L05</b> Bricap L05 <b>L10</b> Bricap L10 <b>L20</b> Bricap L20 <b>L30</b> Bricap L30	<b>S</b> 1 1/2" (38 mm) Sanitary Flange <b>T</b> 3/4" (19 mm) Sanitary Flange <b>K</b> 9/16" (14 mm) Sanitary Flange <b>D</b> 1" (25 mm) Hose Barb <b>M</b> 3/4" (19 mm) Hose Barb <b>X</b> 5/8" (16 mm) Hose Barb <b>V</b> 9/16" (14 mm) Hose Barb <b>H</b> 1/2" (13 mm) Hose Barb			<b>A</b> Autoclavable <b>G</b> Gamma Compatible <b>S</b> Sterile	<b>1</b> 1 / pkg	<b>P</b>

## Bricap T Capsule

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package	Market
<b>T10</b> Bricap T10 <b>T20</b> Bricap T20 <b>T30</b> Bricap T30	<b>S</b> 1 1/2" (38 mm) Sanitary Flange <b>T</b> 3/4" (19 mm) Sanitary Flange <b>K</b> 9/16" (14 mm) Sanitary Flange <b>N</b> without Gauge Port			<b>A</b> Autoclavable <b>G</b> Gamma Compatible <b>S</b> Sterile	<b>1</b> 1 / pkg	<b>P</b>

## BriScale Disc

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Capsule Formats	Inlet	Outlet		Sterilization	Quantity/Package	Market
<b>A50</b> <b>U13</b> Bricap® SFU13 0.72cm² <b>U25</b> Bricap® SFU25 3.4cm² <b>U33</b> Bricap® SFU33 4.5cm² <b>V42</b> Bricap® V42 13.8cm² <b>V5A</b> Bricap® V50A 20cm² <b>V5D</b> Bricap® V50D 20cm²				<b>A</b> Autoclavable <b>G</b> Gamma Compatible <b>S</b> Sterile	<b>1</b> 1 / pkg <b>2</b> 2 / pkg	<b>P</b>

## Cartridge Filter Example : AAPBB050S1P

### Cartridge Filters

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cartridge Type	Media	Length	Code	O-ring Material	Quantity/Package	Market
<b>A</b> Standard Cartridge Pharmaceutical	<b>APBB</b> APB 0.2µm	<b>05</b> 5 inch <b>10</b> 10 inch <b>20</b> 20 inch <b>30</b> 30 inch <b>40</b> 40 inch	<b>0</b> DOE <b>2</b> 226 / Flat <b>7</b> 226 / Fin <b>3</b> 222 / Flat <b>8</b> 222 / Fin	<b>E</b> EPDM <b>V</b> Fluoroelastomer <b>S</b> Silicone <b>P</b> FEP/PFA encap-sulated O-rings	<b>1</b> 1 / pkg	<b>P</b>

## TFF Cassettes

Consieve UET Cassette membranes have a high retention efficiency and are easy to clean/install. Available in a wide range of configurations.

Due to its design, it is easy to amplify/increase based on specific process requirements. The inner gaskets make installation/cleaning/storage/replacement quick and easy. Low working volume and high efficiency ensure product yields.

### Applications

- Biomacromolecules
- Dialysis
- Desalting
- Buffer replacement
- Analysis purification
- Endotoxin removal
- Macromolecular removal

### Fields

- Blood products
- Vaccines
- Recombinant proteins
- Monoterpenes
- Plasmids
- Chemicals
- Chinese medicine injections



### Information

Materials	PES
Material Features	Low protein binding and high product yield superior flow rates
PH Range	Broad chemical compatibility: pH 1-14
NMWL	5/8/10/30/50/100KD
Operating Temperature Range	4-50°C
Max. Operating Pressure	6.0 bar @ 25°C
Diffusion Flow (Air)	0.11 m² ≤12ml/min@1.0bar, 0.46 m² ≤50ml/min@1.0bar
Pressure Drop	0.3-0.6 bar ( Circulation Flow Rate 6L/min/m² )

Types	Available Size	Applications	Throughput	Notes
Lab <b>LA</b>	100 cm² 0.11 m²	R&D R&D, Pilot Production	200-2000ml 5-50L	Membrane Cassette ;
Flow <b>FL</b>	0.46 m² 2.33 m²	Pilot Production, Large Scale Production Pilot Production, Large Scale Production	>50L >50L	Stainless Steel Holder required

## TFF Cassettes Example : UFELA0005001P

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Application	Material of membrane	Format	NMWL	Effective Filtration Area	Industry
<b>UF</b> Ultrafiltration	<b>E</b> PES	<b>LA</b> <b>FL</b>	<b>0005</b> 5 KD <b>0008</b> 8 KD <b>0010</b> 10 KD <b>0030</b> 30 KD <b>0050</b> 50 KD <b>0100</b> 100 KD	<b>001</b> 100 cm² <b>010</b> 0.11 m² <b>050</b> 0.46 m² <b>250</b> 2.33 m²	<b>P</b>

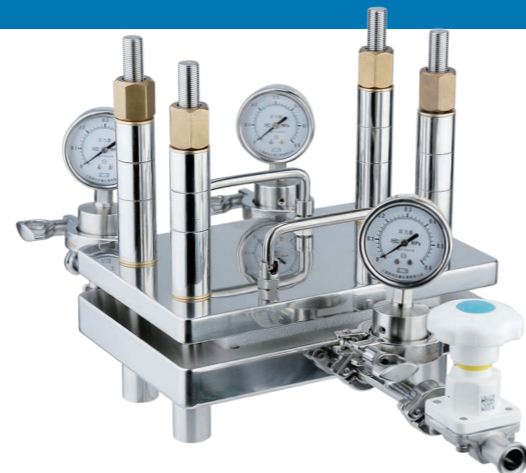
## H-CFH TFF Stainless Steel Holder



### 0.1 m² Stainless Steel Holder

Process development and small-volume parentals production with an EFA of 0.1m².

Unique design is fully compliant with biopharmaceutical applications and their requirements.



### 0.5 m² Stainless Steel Holder

Accomodate an effective filter area of 0.5 m² -2.5 m² up to 5 m²

### Ordering Information

	Effective Filtration Area	Filter Plate Material	Inlet/Outlet/Retentate	Seals Materials	Surface Finish	Design Pressure	Industry
H-CFH	<b>01</b>	<b>S</b>	<b>T15</b>	<b>S</b>	<b>A</b>	<b>X</b>	<b>P</b>
	01 0.1 m²	S 316L	T15 DN15	S Silicone	A Mirror Polish	X 0.6Mpa	P Pharmaceutical
	05 0.5 m²		T20 DN20				
	25 2.5 m²		T38 DN38				
	...						

## TFF System

Cobetter is able to design TFF system based on customer specifications and requirements especially for Pilot Labs and Process Systems



### Pilot System Throughput (50-100L)



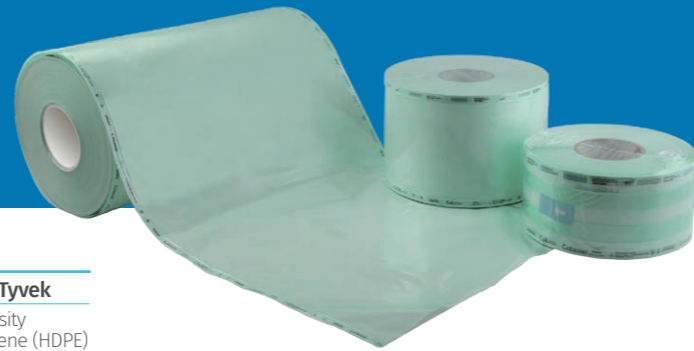
## Integrity Test Instrument CF 7.2



### Specifications

Power Requirements	100-240V AC , 50/60Hz 120W
Display Screen	7-inch High-Definition Color Touchscreen
Dimensions	450mm×280mm×190mm
Test Range	Bubble Point (BP) : 100-8000 mbar Diffusion Flow (DF) : 1-600ml/min Water intrusion : 0.01-100ml/min
Test Method	Manual Bubble Point Test Basic Bubble Point Test Enhanced Bubble Point Test Pressure Holding/Pressure Decay Test Diffusion Flow Test Water Intrusion Test
Max. Operating Pressure	10000 mbar (150 psi) at least 1000mbar higher than the highest tested bubble point
Minimum Input Pressure	Temperature Range : 5° C to 40° C
Operating Conditions	Relative Humidity : 10% to 80%
Test Time Range	Net Volume Test Time : 4mins±2mins Diffusion Flow Test : 8mins±2mins Bubble Point Test : 10mins±2mins Enhanced Bubble Point Test : 15mins±2mins Water Intrusion Test : established testing time ± 2minss
Print Function	English / Chinese language, Output Test parameters and result, Auto/manual print options
History Record Function	Unlimited test records storage with SD card; USB connection to output data
Language Options	English / Chinese

# Cleansteam Bag



Breathing Side	<b>Arjo60-70 Dialysis Paper</b>	<b>Dupont Tyvek</b>
Holding Side	Temperature resistant medical composite membrane(PET+CPP)	High Density Polyethylene (HDPE)
Sterilization Indicators	Autoclave sterilization indicator Ethylene oxide sterilization indicator	
Package	Double-layer packaging; additional protection which protects the bags from scratching	

▲ Arjo60-70 Dialysis Paper

▼ Dupont Tyvek

Item	Media	Width				
<b>M</b> Dialysis Paper	Dialysis Paper	50mm	250mm		x 200mm	
		75mm	300mm		2D P	
		100mm	350mm			
		125mm	400mm			
		150mm	500mm			
		200mm				
<b>T</b> Dupont Tyvek	Dupont Tyvek	75mm	250mm		x 100mm	
		100mm	300mm		3D L	
		150mm	350mm			
		200mm	400mm			
		210×297mm	500×830mm	800×1200mm		
		300×830mm	600×800mm	900×900mm		
320×450mm	600×882mm	1000×1000mm				
350×450mm	600×900mm	1000×1200mm				
400×400mm	700×900mm	1200×1200mm				
400×500mm	700×1000mm					
450×700mm	800×900mm					
500×600mm	800×800mm					
500×650mm	800×900mm					



# Vacuum Filter

Specification	150ml, 250ml, 500ml, 1000ml
Membrane	PES, CN, CA, NY
Removal Ratings	0.1 / 0.2 / 0.45µm

Item	Type	Size	Material of membrane	Market
<b>C</b>	Bottle + Filter bowl	<b>150</b> 150mL	<b>MLEN</b> PES 0.1	<b>SLES</b> PES 0.45+0.2
		<b>250</b> 250mL	<b>SLFN</b> PES 0.22	<b>MLEB</b> PES 0.2+0.1
<b>B</b>	Only bottle	<b>500</b> 500mL	<b>PAFS</b> PES 0.45	<b>SAFS</b> PES 0.45+0.2
		<b>01L</b> 1000mL	<b>SPFN</b> PTFE 0.22	<b>SMDS</b> PVDF 0.45+0.2
<b>F</b>	Only filter bowl		<b>SMDN</b> PVDF 0.22	
			<b>0000</b> only bottle	



Market P

# Filter Housing Catalog

## Sanitary Liquid Filter Housing



	Number of Filter	Filter Length	Materials	End Cap	Housing Connection	Inlet/Outlet	Sealing Materials	Surface Finish	Design Pressure	Industry
H-SCF-A	<b>01</b>	<b>05</b>	<b>F</b>	<b>S</b>	<b>I</b>	<b>T25</b>	<b>S</b>	<b>A</b>	<b>X</b>	<b>P</b>
H-SCF-B	<b>01</b> 1 round	<b>05</b> 5 inch <b>10</b> 10 inch <b>20</b> 20 inch <b>30</b> 30 inch	<b>F</b> 304 <b>S</b> 316L	<b>S</b> 226 <b>T</b> 222 <b>D</b> DOE	<b>T</b> Tri-clamp	<b>T25</b> Tri-clamp DN25	<b>S</b> Silicone <b>E</b> EPDM <b>V</b> Viton <b>F</b> PTFE	<b>A</b> Mirror polishing <b>B</b> Internal Electrolytic-polishing	<b>X</b> 0.6MPa <b>Y</b> 1.0MPa	<b>P</b> Pharmaceutical

## Vent Housing



	Number of Filter	Filter Length	Materials	End Cap	Housing Connection	Inlet/Outlet	Sealing Materials	Surface Finish	Design Pressure	Industry
H-VCF	<b>01</b>	<b>05</b>	<b>F</b>	<b>S</b>	<b>I</b>	<b>T25</b>	<b>S</b>	<b>A</b>	<b>X</b>	<b>P</b>
H-VCF II	<b>01</b> 1 round	<b>05</b> 5 inch <b>10</b> 10 inch	<b>F</b> 304 <b>S</b> 316L	<b>S</b> 226 <b>T</b> 222	<b>T</b> Tri-clamp	<b>T25</b> Tri-clamp DN25 <b>T38</b> Tri-clamp DN38 <b>T50</b> Tri-clamp DN50	<b>S</b> Silicone <b>E</b> EPDM <b>V</b> Viton	<b>A</b> Mirror Polish <b>B</b> Internal Electro-polish	<b>X</b> 0.6MPa	<b>P</b> Pharmaceutical

## Gas Filter Housing



	Number of Filter	Filter Length	Materials	End Cap	Housing Connection	Inlet/Outlet	Sealing materials	Surface Finish	Design Pressure	Industry
H-GCF	<b>01</b>	<b>05</b>	<b>F</b>	<b>S</b>	<b>I</b>	<b>T38</b>	<b>S</b>	<b>A</b>	<b>X</b>	<b>P</b>
	<b>01</b> 1 round <b>03</b> 3 round	<b>05</b> 5 inch <b>10</b> 10 inch <b>20</b> 20 inch <b>30</b> 30 inch	<b>F</b> 304 <b>S</b> 316L	<b>S</b> 226	<b>T</b> Tri-clamp <b>F</b> Flange	<b>T25</b> Tri-clamp DN25 <b>T38</b> Tri-clamp DN38 <b>T50</b> Tri-clamp DN50 <b>F25</b> Flange DN25	<b>S</b> Silicone <b>E</b> EPDM <b>V</b> Viton	<b>A</b> Mirror Polish <b>B</b> Internal Electro-polish	<b>X</b> 0.6MPa <b>Y</b> 1.0MPa	<b>P</b> Pharmaceutical

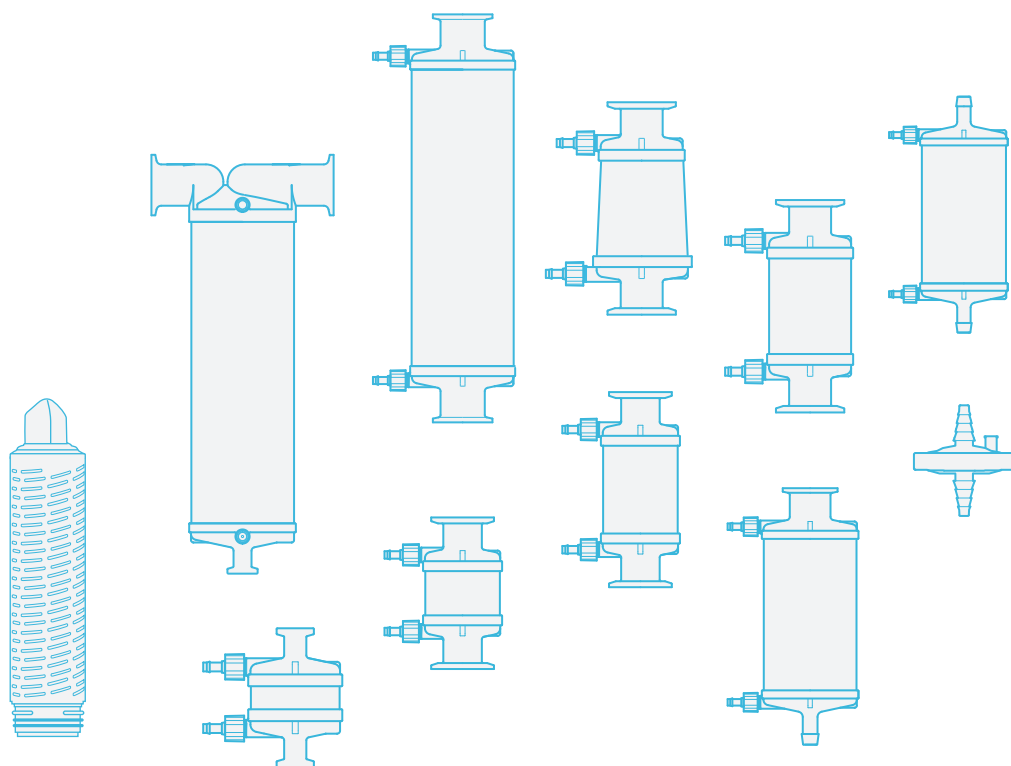
## Steel Membrane Holder



	Number of Membrane	Membrane O.D.	Material	Housing Connection	Inlet/Outlet	Sealing Materials	Surface Finish	Design Pressure	Industry
H-DMF	<b>01</b>	<b>47</b>	<b>F</b>	<b>I</b>	<b>T25</b>	<b>S</b>	<b>A</b>	<b>X</b>	<b>P</b>
	<b>01</b> 1 membrane	<b>47</b> 47mm <b>90</b> 90mm <b>142</b> 142mm <b>200</b> 200mm <b>293</b> 293mm	<b>F</b> 304 <b>S</b> 316L	<b>T</b> Tri-clamp <b>L</b> Screwed Connection	<b>T25</b> Tri-clamp DN25	<b>S</b> Silicone <b>E</b> EPDM <b>V</b> Viton	<b>A</b> Mirror Polish <b>B</b> Internal Electro-polish	<b>X</b> 0.6MPa	<b>P</b> Pharmaceutical

# Cobetter Filtration

- Cobetter Customers are in more than **80** Countries.
- Japanese Customers numbers are **300**.
- We provide filters annually to **20,000** customers worldwide.



**cobetter**<sup>®</sup>  
— filtration —

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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Телефоны: +7 (495) 7774788, 7489626, (925) 5007155, 54, 65 Эл. почта: [info@tisys.ru](mailto:info@tisys.ru) [info@tisys.kz](mailto:info@tisys.kz) [info@tisys.by](mailto:info@tisys.by)